REMARKS

This Amendment and Response to Office Action is made in response to the examiner's office action dated September 29, 2004. A Petition for Revival of an Application for Patent Abandoned Unintentionally under 37 C.F.R. 1.137(b) accompanies this Amendment and Response to Office Action.

The foregoing amendment is made in response to the Examiner's request, and incorporates no new matter. The examiner's comments have been carefully considered, and are addressed in turn in the following paragraphs.

Priority Claim: Applicant submits herewith a certified copy of Israel PBR Application Serial No. 3428/02, filed October 21, 2002.

Objection to the Disclosure:

- A. The specification has been amended to include a comparison between 'Yuval' and 'Bella' and 'Tamar,' as requested by the examiner.
- B. The specification has been amended to include the full Latin name of the claimed variety, as requested by the examiner.
- C. The specification has been amended to clearly indicate that asexual propagation of the variety took place in Sharon Valley, Israel.
- D. H. The specification has been amended to add further botanical information, as requested by the examiner. All requested information has been supplied.
- I. The specification has been amended to properly refer to the Royal Horticultural Society Colour Chart, as requested by the examiner.

CONCLUSION

With the entry of the foregoing amendment and remarks, applicant believes that this application is now in condition for allowance. Such action is respectfully requested. Any remaining questions or comments may be directed to applicant's representative who signs below.

Respectfully Submitted,

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VERSION WITH MARKINGS TO SHOW CHANGES MADE

TITLE OF THE INVENTION

Strawberry Plant Named 'Yuval'

CROSS-REFERENCE TO RELATED APPLICATIONS

This application claims priority of Israel Plant Breeder's Rights application Ser. No. 3428/02, filed October 21, 2002.

STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH OR DEVELOPMENT.

None.

10 LATIN NAME OF THE GENUS AND SPECIES OF THE PLANT CLAIMED

Fragaria L. Fragaria x ananassa

VARIETY DENOMINATION

'Yuval'

BACKGROUND OF THE INVENTION

This new variety was developed from an organized, scientifically designated, breeding program, carried out by Fertiseeds LTD, Rehovot, Israel. This new variety originated as a single scedling selected from a seedling population obtained by a cross in

March 2000 between female line #7 (a single plant selection from a selfing population of variety 'Tamar,' U.S. Plant Pat. No. 11,135) and breeding line #3 (a single plant selection from a selfing population of variety 'Belia,' unpatented). A single plant selection from the cross between Line #7 and Line #3 was propagated by runners and subsequently reproduced by meristem culture at Sharon Valley, Israel in August 2000. In every generation (three generations) the plant populations were observed carefully for variants and off types — no variants or off types were found.

BRIEF SUMMARY OF THE INVENTION

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'Yuval' is a new and distinct cultivar of Fragaria L Fragaria x ananassa. Yuval is able to grow from September and produce fruits starting in November and lasting until the following summer. The production of the fruit beginning in November (Northern Hemisphere, latitude 30-33 degrees) is two months earlier than short day varieties of Fragaria L-species. The fruit of the "Yuval" variety is characterized by a unique, uniform color, as well as very desireable taste, texture, shape and size.

15 BRIEF DESCRIPTION OF THE PHOTOGRAPH

FIG.1 is a photograph of the "Yuval" variety, illustrating the fruit.

FIG.2 is a photograph of the "Yuval" variety, illustrating a cross section of the fruit.

DETAILED BOTANICAL DESCRIPTION

The "Yuval" variety was grown in fall-winter, under polyethylene tunnels in Israel.

20 "Yuval" is an 'infra short day' variety, flowering earlier than 'short day' type strawberry

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varieties. Infra-Short-Day (I.S.D.) varieties are defined as varieties which initiate floral bud primordia under regimes of 13-14 hours at the time that night temperatures are about 22 °C to 26 °C, compared to strawberry types classified as 'short day', that do not initiate floral bud primordia under above mentioned conditions, thus resulting in early flowering and fruit production. Flowering and fruit production are affected by the use of polyethylene tunnels, protecting the plants against wind, and more importantly against rain, which causes malformation of the fruit as well as fruit decay.

This production technique, when practiced by the skilled artisan, does not involve temperature or light control, but normal field conditions. Mother plants were stored at 2 °C from December/January through April. They were planted in the nursery without further treatment. Runners with plantlets were produced during summer. These young plantlets were collected from the nursery in September and transferred to raised beds. Average temperatures at that time of the year are 30 °C during the day and 22 °C at night. Water and fertilizers were applied through drip irrigation.

An example of an optimum planting date is between September 15 and 25, with the approximate date of flowering from October 5 to 15 and the approximate date of first fruiting from November 5 to 25. Flowering is not induced by chilling, but by natural exposure to short days (13-14 hours) characteristic of late summer.

'Yuval' has no tendency toward fruit malformation. Disease tolerance in 'Yuval' appears normal in that no particular problematic conditions arose during trials. However, there were indications that 'Yuval' is tolerant to Phytophthera. The type of bearing is remontant, i.e., 'Yuval' blooms continuously during late fall, winter and spring.

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The fruit shape of 'Yuval' is similar to the strawberry variety 'Dorit' (U.S. Plant Pat. No. 7,869). The fruit is longer than broad, with primary, secondary and tertiary fruit possessing almost similar shape. The fruit is of good firmness with a red color.

'Yuval' flowers two months earlier than known short day strawberry varieties. A close known variety would be 'Dorit' (U.S. Plant Pat. No. 7,869); also see the new varieties 'Sharon' (U.S. Plant Pat. No. 7,881); 'Shalom' (U.S. Plant Pat. No. 7,876); 'Smadar' (U.S. Plant Pat. No. 7,865); 'Ofra' (U.S. Plant Pat. No. 8,746); 'Virginia' (U.S. Plant Pat. No. 8,748; 'Nama' (U.S. Plant Pat. No. 8,747). Additionally, early flowering results in early fruit production.

A comparison of 'Yuval' to 'Bella' and 'Tamar' reveals a number of distinguishing characteristics, as illustrated in Table 1:

TABLE 1

Ch	53/12	4D-11-2	•Taman?
Characteristic	'Yuval'	<u>'Bella'</u>	<u>'Tamar'</u>
Date flowering begins*	<u>Very early</u>	<u>Early</u>	Very early to early
Fruit color	<u>Red</u>	Light red	Red
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Fruit shape	Ovate perfect	Ovate to round	Ovate to conical
Uniformity of fruit	Very uniform	Not uniform	Not uniform
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Fruit malformation	Very uniform	Light malformation	Malformed
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	•		
Plant vigor	<u>Compact</u>	Compact	<u>Vigorous</u>
Fruit size	Medium small	Medium	Large to medium

^{*} Under prevailing conditions in Sharon Valley, Israel

The following is a detailed botanical description of 'Yuval,' based on observations made at Rehovot, Israel. Color readings described herein were taken under natural light conditions and color identifications were made by reference to the Royal Horticulture Society 5 Color Chart (R.H.S.C.C.) Royal Horticultural Society Colour Chart, except where common terms of color definition are employed. It should be understood that the botanical and analytical characteristics described will vary somewhat depending upon cultural practices and climatic conditions, and can vary with location and season. Quantified measurements are expressed as an average of measurements taken from a number of individual plants of the new variety. The measurements of any individual plant, or any group of plants, of the new variety may vary from the stated average.

Plant

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1. Height	14-19 cn	n
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2. Diameter 25-30 cm

3. Habit Compact

4. Density Dense

5. Vigor Medium

Leaf

1. Length 18-22 cm 2. Width

3. Green Color of upper side Medium RHS ea 147-AS 147A, 147B

(Compare to 'Dorit')

12-16 cm

4. Blistering Medium

5. Cross section Concave

6. No. of leaflets Sometimes >2

Petiole

1. Length 10-12 cm

2. Thickness 3-4 mm

3. Pubescence Medium

4. Green Color Light green RHS ca 144/8 144B

Terminal leaflet

1. Length/ Width ratio Longer than broad

2. Shape of Base Obtuse

3. Shape of Teeth Rounded

. 4. Length 5-8 cm

5. Width 5-7 cm

Calyx

1. Diameter of Primary Calyx 20-40 mm

2. Diameter of Secondary Calyx 20-30 mm

3. Diameter of Tertiary Calyx 20-30 mm

4. Size of Inner Calyx in relation to Outer Calyx Same size

5. Calyx Color Light green RHS 144B

Flower

1. Diameter of Primary Flower 20-26 mm

2. Diameter of Secondary Flower 20-26 mm

3. Diameter of Tertiary Flower 20-26 mm

4. Spacing of petals Overlapping

5. Petal Length 10-12 mm

6. Petal width 10-14 mm

7. Petal length/ width Broader than long

8. Time of beginning of flowering Very early (approximately the first

week of October under the prevailing

conditions); compare to 'Dorit'

9. Fragrance Little to much Mild

Stolon

1. Number per plant Many

2. Thickness 3.5-4 mm

3. Pubescence Weak

4. Anthocyanin coloration Very weak

Inflorescence

1. Position relative to foliage

Same

2. Peduncle length

Ca. 11 cm

3. Peduncle thickness

Ca. 3 mm

4. Peduncle color

Light green RHS 144B

5. Peduncle pubescence

Medium dense

Fruit

Time of first ripening

Very Early (first week of November

in Hod HaSharon, Israel)

Primary Fruit

1. Length

40-50 mm

2. Width

35-50 mm

3. Shape

Cordial; similar to 'Dorit,' but without the tendency to produce

malformed fruits.

4. Weight

Ca. 25 g

Secondary Fruit

1. Length

36-50 mm

2. Width

30-40 mm

3. Shape

Cordial

4. Weight

Ca. 24 g

Tertiary Fruit

1. Length 30-45 mm

2. Width 25-35 mm

3. Shape Cordial

4. Weight Ca. 24 g

Fruit

1. Band without achenes Narrow

2. Unevenness of surface Very weak

3. Color Red 44 A

4. Evenness of color Even

5. Glossiness Very Strong

6. Insertions of achenes Level with surface

7. Insertions of calyx Below Surface

8. Rose of calyx segments Detached

9. Size of calyx in relation to fruit diameter Smaller

10. Adherence of calyx Strong

11. Firmness Medium-firm

12. Color of flesh Orange-red 438

13. Evenness of flesh color Uneven

14. Sweetness Strong

15. Acidity Weak -medium

16. Yield

Very high (See Table 1 2)

17. Eating Quality

Excellent (See Table 23)

18. Fruit Structure

Semi-hollow

19. Color of Achenes

Light brown to deep yellow

TABLE 1 TABLE 2

COMPARATIVE YIELD OF 'YUVAL'

	November	December	January	February	March	April
'Yuval'	60	80	100	80	120	160
'Dorit'	30	70	100	100	100	100
'Ofra'	50	60	60	100	100	100
'Chandler'	0	0	30	150	150	120

Note: Average yield in g./plant in Hod HaSharon, Israel

TABLE 2 TABLE 3

COMPARATIVE FRUIT CHARACTERISITCS OF 'YUVAL'

	T.S.S.	Acidity	Aroma	Taste
Yuval	8.5-11.0	1.0	5	Excellent
Dorit	8.5-9.5	1.0	5	Good
Ofra	8.0-9.5	1.0	4	Good
Chandler	6.5-7.5	0.8	4	Slightly acidic

Notes:

1. T.S.S. - Total Soluble Solids (Sugars) expresses fruit sweetness and was determined with a refractometer.

2. Percent of acidity was determined as follows: 2 cc juice extract was mixed with 20 cc water. Five drops of phenolphthalein was added and the mixture was titrated with NaOH. The percent acidity is calculated as the quantity of NaOH(cc) X 0.32.

CLAIM

We claim a new and distinct strawberry plant substantially as shown and described herein.

ABSTRACT OF THE DISCLOSURE

A new and distinct cultivar of *Fragaria L. Fragaria x ananassa* is disclosed. 'Yuval' grows from September and produces fruit starting in November and lasting until the following summer. The production of the fruit beginning in November (Northern Hemisphere, latitude 30-33 degrees) is two months earlier than short day varieties of *Fragaria-L* species. The fruit of 'Yuval' is characterized by a unique, uniform color, as well as a very desirable taste, texture, shape and size.

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